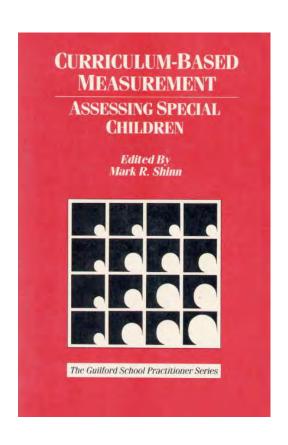
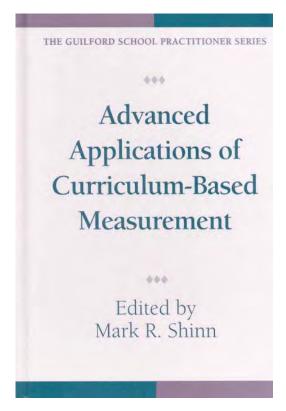
# Progress Monitoring in RTI/MTSS: Critical Tools-Emerging School Practice

Mark R. Shinn, Ph.D.
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National Louis University, Skokie, IL

<u>markshinn@me.com</u>
<a href="mailto:http://markshinn.org">http://markshinn.org</a>

#### My Own Particular Area of Expertise

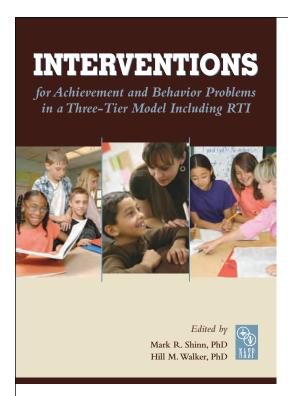




**Editor** and Contributor to 2 Major Texts on **CBM** 

1 of 6 members of Technical Review Panel, National Center Author of More than 75 Refereed Journal Articles and Book for Student Progress Monitoring, USDE/OSEP 2003-2007

Chapters on the Topic of CBM, Progress Monitoring, and Screening



# Background Reading Chapter Written for New NASP Interventions Book

Shinn, M. R. (2010). Building a scientifically based data system for progress monitoring and universal screening across three tiers including RTI using Curriculum-Based Measurement. In M. R. Shinn & H. M. Walker (Eds.), Interventions for achievement and behavior problems in a three-tier model, including RTI. Bethesda, MD: National Association of School Psychologists.

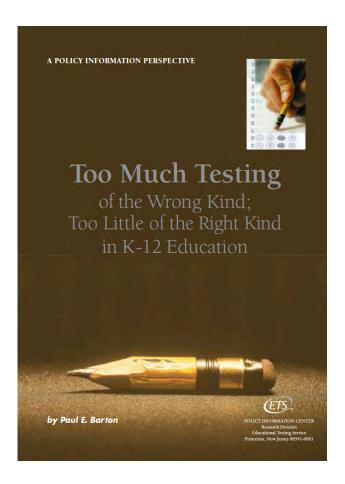
## Disclosure

Mark R. Shinn, Ph.D. Serves as a Paid Consultant for **Pearson Assessment** for their **AIMSweb** product that provides CBM assessment materials and organizes and report the information from 3 tiers, including RTI

Mark R. Shinn, Ph.D. Serves as a Consultant for **Cambium/Voyager/Sopris** for their **Vmath** product, a remedial mathematics intervention

Mark R. Shinn, Ph.D. Serves as a Consultant for McGraw-Hill Publishing for their **Jamestown Reading Navigator (JRN)** product and receives royalties

#### **An Excellent Read**



Barton, P. E. (1999). Too much testing of the wrong kind; Too little of the right kind in K-12 education. Princeton, NJ: Educational Testing Service, Research Division.

#### **Accessing Some Reading Materials**



## markshinn.org

- 1. Click on the Downloads for Professionals Icon
- 2. Click on the Presentations and Handouts Folder
- 3. Click on the Virginia Department of Education Rtl Progress Monitoring Folder

## In Rtl, Which Comes First?



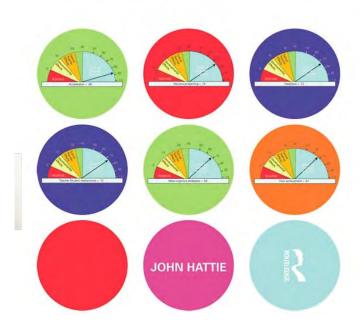
R is About Our Capacity to Monitor PROGRESS

# One Particular Kind of Assessment (Formative) is Among the MOST Powerful "Interventions" We Have

...effective across student age, treatment duration, frequency of measurement, and special needs status

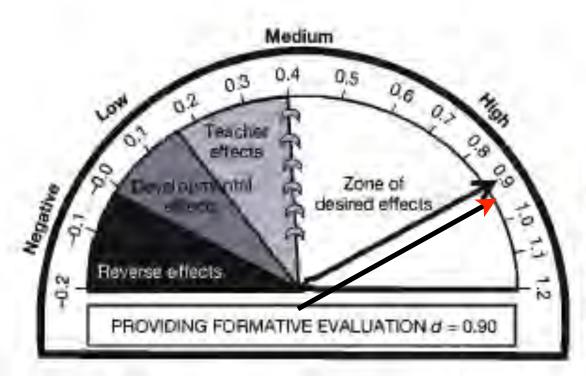
Major message is for teachers to pay attention to the formative effects of their teaching as it is this attribute of seeking (my emphasis) formative evaluation...that makes for excellence in teaching (p. 181)

## A SYNTHESIS OF OVER 800 META-ANALYSES RELATINGTO ACHIEVEMENT



Hattie, J. (2009). Visible learning: A synthesis of over 800 meta-analyses relating to achievement. New York, NY: Routledge.

# Meta-Analysis of Progress Monitoring Type Illustrated by CBM

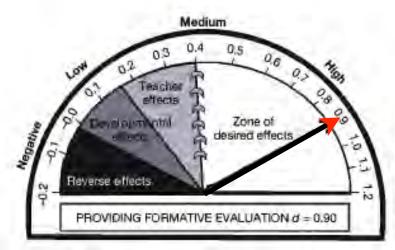


KEY	
Standard error	0.079 (Medium)
Rank	3rd
Number of meta-analy	/ses 2
Number of studies	30
Number of effects	78
Number of people (1)	3,835

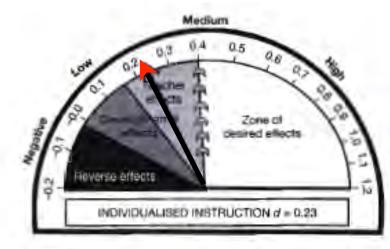
#### And the Number 1 Most Powerful TEACHING Variable

Hattie, J. (2009). Visible learning: A synthesis of over 800 meta-analyses relating to achievement. New York, NY: Routledge.

# Contrast PM with A More Popular "Intervention" Individualized Instruction



KEY	
Standard error	0.079 (Medium)
Rank	3rd
Number of meta-analy	yses 2
Number of studies	30
Number of effects	78
Number of people (1)	3,835



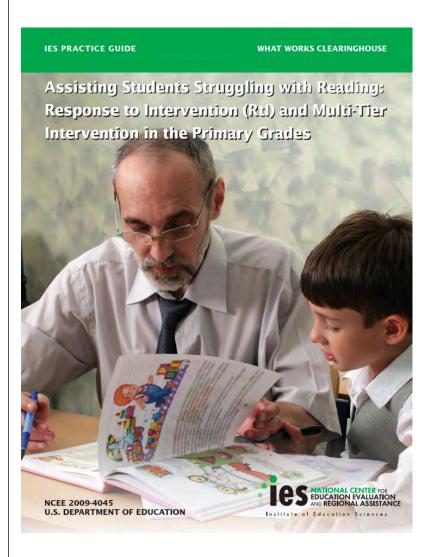
KEY	
Standard error 0.0	56 (Medium)
Rank	100th
Number of meta-analyses	9
Number of studies	600
Number of effects	1,146
Number of people (2)	9,380

Hattie, J. (2009). Visible learning: A synthesis of over 800 meta-analyses relating to achievement. New York, NY: Routledge.

# You See Screening and Frequent PM as Best Practices EVERYWHERE!

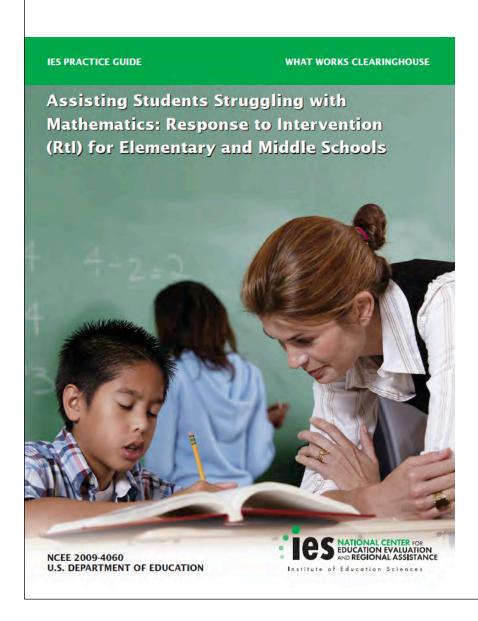
- 1. Increase the quality, consistency, and reach of instruction in every K-3 classroom
- 2. Universal Screening and Timely and Valid Assessments of Reading Growth for Progress Monitoring
- 3. Provide more intensive interventions to "catch up" the struggling readers

#### Reading Screening is Best Practice



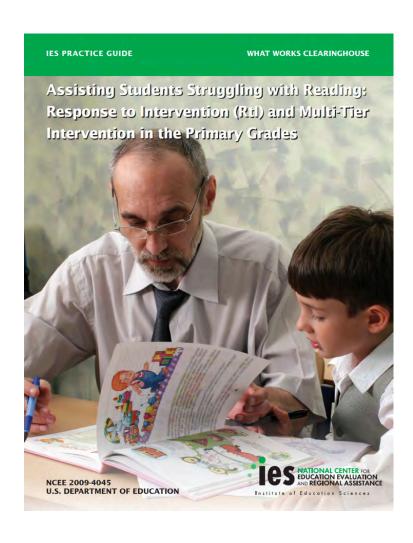
Screen all students for potential reading problems at the beginning of the year again in the middle of the year.

#### Mathematics Screening is Best Practice



1. Screen all students to identify those at risk for potential mathematics difficulties and provide interventions to students identified as at risk.

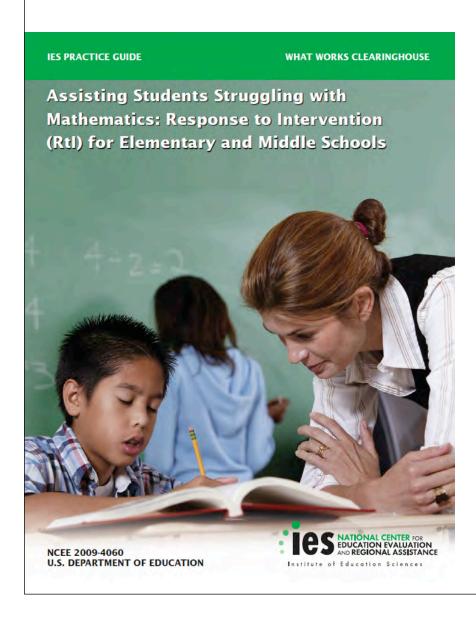
#### Reading Progress Monitoring is Best Practice



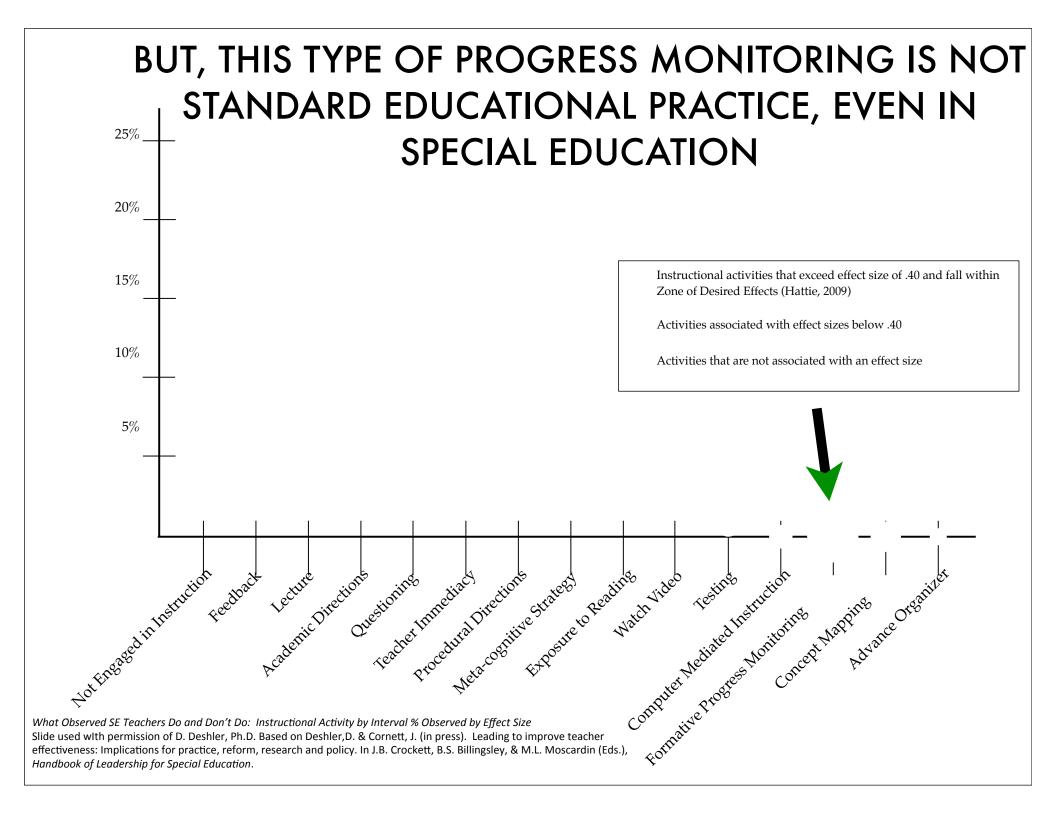
Regularly monitor the progress of students at risk for developing reading disabilities.

Monitor the progress of tier 2 students at least once a month.

#### Mathematics Progress Monitoring is Best Practice



1.Monitor the progress of students receiving supplemental instruction and other students who are at risk.



### Big Ideas

- One of the Features of a Multi-Tier, Coordinated Early Intervening Services Model (aka RTI) is Data-Based Decision Making, Particularly Reading Screening (Universal) and Progress Monitoring
- Schools Are Far More Interested in Screening Than Progress Monitoring; Progress Monitoring Practices are Haphazard and Jerry-Rigged Rather Than Planned, Proactive, Scientific, and Coordinated
- One Particular Type of Progress Monitoring, Frequent Formative Evaluation Using General Outcome Measurement (GOM), is Among the Most Powerful INTERVENTIONS We Have, Especially for Students with Achievement Discrepancies and With Disabilities
- There Are 5 Types or Families of Progress Monitoring Practices
- We Will Get Farther, Faster, by Proactively Planning Progress Monitoring Practices Across Types, Tiers, and Grade Levels
- It is Better to Do a Few Important Things Really Well, Than a LOT of Less Important Things Poorly so Let's Start with Progress Monitoring of Basic Skills and Prioritize Reading
- For These Reasons and More, We Must Consider Curriculum-Based Measurement as Vital for Our Tool Box

#### Goals

- 1. Provide Some Judicious Review, Linking Growth Curve Modeling with More Frequent Progress Monitoring Practices
- 2. Provide Some Consistent Vocabulary and Concepts for Frequent Progress Monitoring, Including What Makes for Good Progress Monitoring Practices
- 3. Provide Examples of Each of the 5 Types of Frequent Progress Monitoring Using Scientifically Based Tests Like Curriculum-Based Measurement (CBM)
- 4. Facilitate Proactive Planning of Coordinated Progress Monitoring Practices Across Types, Tiers, and Grade Level

#### 5 Types of Frequent Progress Monitoring

- Special Education Monitoring of IEP Objectives
- Special Education Eligibility as Part of Rtl
- Tier 3 Progress Monitoring for Students with Severe Achievement Discrepancies
  - Tier 2 Progress Monitoring for Students At Risk
  - Tier 1 Progress Monitoring for All Students

# Practice Exercise 1: What Are We Doing Now?

WITHIN GRADES ACROSS TIERS

Take Out Inventory Sheet 1:

Taking Inventory of Progress Monitoring Practices Across the 5 "Families" Using Grade 3 Reading

Think About Your School, Progress Monitoring, and These Questions

Talk and Report Out

## Tests, Measures or Practices

What Tests, Measures or Practices are Used?

- MAP
- CBM (e.g., AIMSweb, DIBELS)
- **SOL**
- DRA
- Teacher Judgments
- Publishers End of Unit Tests
- Running Records

## How Often Are They Used for PM?

#### **How Often Does Progress Monitoring Take Place**

- Once Per Year
- Twice Per Year
- Three Times Per Year
- Four Times Per Year
- Monthly
- --- Weekly
- Daily
- Once in a While
- Irregularly

#### Who Does the PM?

#### The Person (or Thing) Who Does the Testing or Is Responsible

- Special Education Teacher
- RTI Team Member
- General Education Teacher
- Paraprofessional
- Specialist (e.g., School Psychologist)
- School Team
- Computer

## **Goal Setting Practices**

What is the Intent of Progress Monitoring? How Are Goals Set or Written

- To Make AYP
- To Make the Same Rate of Progress as Other Students?
- To Reduce the Gap?
- I Don't Know?

#### Time and Cost?

How Much Time Does It Take Per Student and How Much Does It Cost to Do Each Year

- 2 min, 3 times per year?
- 45 min, once per month?
- Free?
- \$20 per student?

#### How Do We Know It is Evidence Based?

- It's Not Just Intervention(s) That Should Be Evidence-Based!
- Good Progress Monitoring Tests Meet Technical Standards for Reliability, Validity, Sensitivity
- Peer-reviewed journals
- Independent Review by Appropriately Credentialed Experts
- Publishers' Materials
- Personal Opinion

## Points of Vulnerability

- What Can Go Wrong or Adversely Affect Judgments
- Lack of training
- Lack of time
- Students may not be motivated
- Computers may not work reliably

## Results?

COMPLETE?
COORDINATED AND CONSISTENT?
COMPLICATED?
CONFIDENCE?
FEASIBLE?

# Practice Exercise 2: What Are We Doing Now?

**ACROSS GRADES WITHIN A TIER** 

Take Out Inventory Sheet 2:

Taking Inventory of Progress Monitoring Practices Across the 3 Grades When Provided Tier 3 and/or Special Education for Reading Concerns

Think About Your School, Progress Monitoring, and These Questions

Talk and Report Out

## Results?

- COMPLETE?
- COORDINATED AND CONSISTENT?
- COMPLICATED?
- CONFIDENCE?
- FEASIBLE?

# Develop Consistent Understanding and Vocabulary

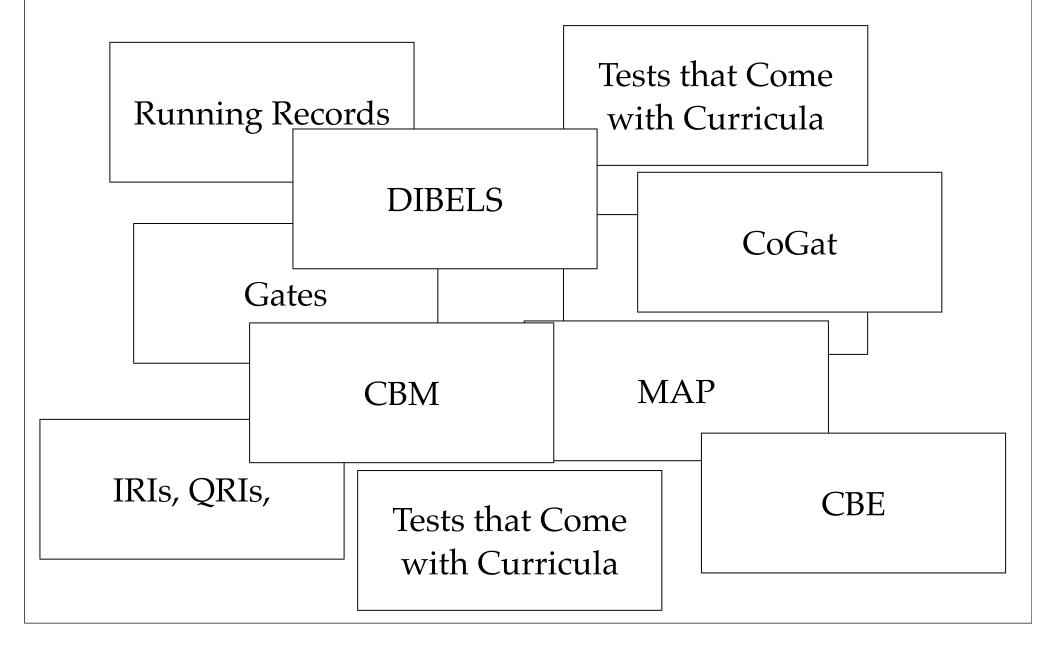
Very Few Have Had Extensive Training in Assessment

What Training We Have Received in Typically NOT in Progress Monitoring Practices

#### KNOW THE 4 TYPES OF TESTS

Type of Test	<b>Assessment Question</b>
Screening (Individual or Universal)	Is the student sufficiently different that further assessment or intervention is required?
Instructional Planning or "Diagnosis"	What to teach and how to teach it?
Progress Monitoring	Is the student benefiting from the intervention
Program Evaluation and Accountability	Is what we are doing making a difference for our STUDENTS?

#### The World of Assessment



# Foundational Concepts: Schools See Screening as More Important than PM

Screening is About Finding the Students with Educational (or Behavioral Needs): Good Intentions

It's Consistent with Our Belief System that (Most) Problems are "Within the Student": Assigning the Blame

Progress Monitoring is More About US: Is What WE are Doing Working?

PM Results May Make Us Question What We Do and/or Require Us to Do Something DIFFERENT!

# Know the Purpose of Specific Tests and Reduce Assessment to the Essentials



Take a Basic Skills Focus
Screen Everyone (Universal) as Long as You Need To
Screen Individuals When It is More Time and Cost
Efficient
Progress Monitor (PM) Everyone as Long as You Need

Progress Monitor (PM) Everyone as Long as You Need
To

PM More Frequently at Tiers 2 and 3, and IEPs
Be Conservative in Accountability Testing
Don't Try to Diagnose (Assess for Instructional
Planning) Everyone and A Lot!
Build a High Quality Grading and Reporting System for
Content Area Classes

# Foundational Concepts: PM is Hampered By Lack of Familiarity with Key Vocabulary and Concepts

#### Formative Assessment

Assessing DURING Instruction to Judge Whether Learning Is
 Occurring or Whether Changes in Intervention is Required

#### Summative Assessment

 Assessing AFTER Instruction to Judge Whether What is Taught is LEARNED

## Foundational Concepts: PM is Hampered By Lack of Familiarity with Key Vocabulary and Concepts

#### **STANDARDIZED**

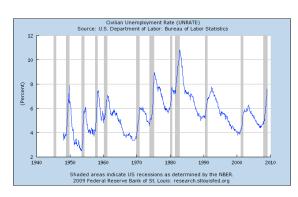
- Whether a test or assessment process is done in a consistent and standard way across students and time.
- Administered, scored and interpreted in a STANDARD WAY
- Standardized Tests are Necessary to:
  - Compare students to identify those with different educational needs
  - Compare an individual student's progress over time

# Foundational Concepts: PM is Hampered By Lack of Familiarity with Key Vocabulary and Concepts

#### General Outcome Measurement

- Assessing Progress over Time Using a Simple Indicator
   That is The Same Measure Each Time
- Comparable to Other Fields, Less Comfortable to Educators
- Requires the Indicator is Valid

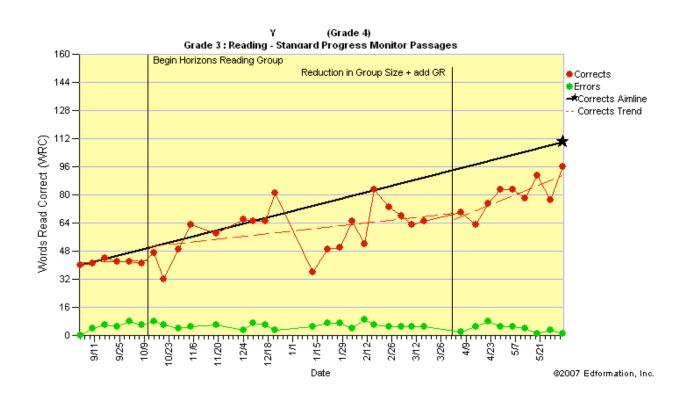




**Economic Activity** 

**Weiaht Loss** 

## Reading GOM or LTM



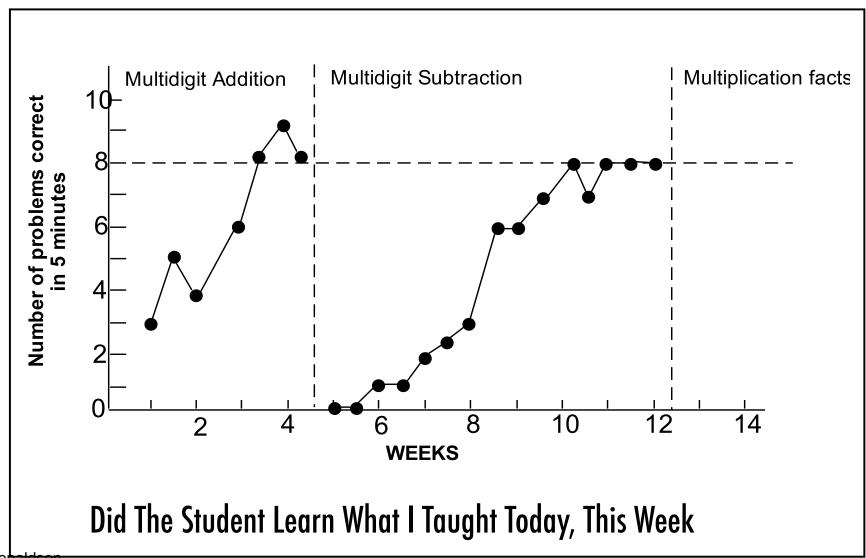
### Is the Student Becoming a Better Reader

# Foundational Concepts: PM is Hampered By Lack of Familiarity with Key Vocabulary and Concepts

### Mastery Monitoring (MM) or Short-Term Measurement (STM)

- Assessing Progress over Time Using Multiple (and Different) Tests at Different
   Times
- Comfortable to Teachers
- Requires the Instructional Sequence to be Valid Among Other Criteria
- Can Be Logistically Complex Because Tests Are Constantly Changing
- But High INSTRUCTIONAL VALIDITY

## Mastery of Multi-Digit Addition and Subtraction



from Whitney Donaldson

http://www.studentprogress.org/library/presentations.asp

### Sample Grade 4 Math Sequence

- 1 Multi-digit addition with regrouping
- 2 Multi-digit subtraction with regrouping
- 3 Multiplication facts, factors to 9
- 4 Multiply 2-digit numbers by a 1-digit number
- 5 Multiply 2-digit numbers by a 2-digit number
- 6 Division facts, divisors to 9
- 7 Divide 2-digit numbers by a 1-digit number
- 8 Divide 3-digit numbers by a 1-digit number
- 9 Add/subtract simple fractions, like denominators
- 10 Add/subtract whole number and mixed number

### For Each Objective, a Different Test is Used: Multi-Digit Addition Mastery Test

Date Name: Adding 36521 53429 84525 67842 57321 +63758 +63421 +75632 + 53937 +46391 56382 36422 34824 32415 45321

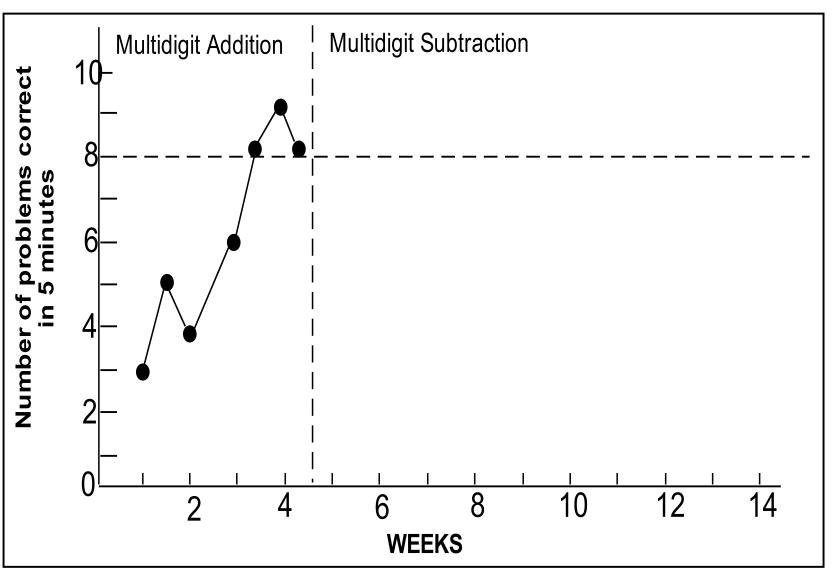
+69426

+94742 +57529

+85439

+86274

## Performance on Multi-Digit Addition is Graphed



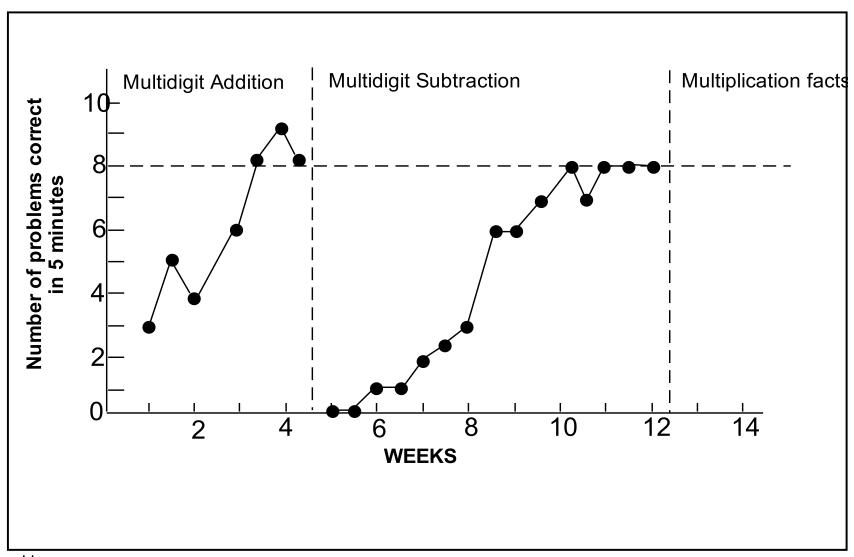
from Whitney Donaldson <a href="http://www.studentprogress.org/library/presentations.asp">http://www.studentprogress.org/library/presentations.asp</a>

#### Student Moves On to Multi-Digit **Subtraction**

Date Name:

Subtracting

## Results on Objective 2 are Then Graphed



from Whitney Donaldson http://www.studentprogress.org/library/presentations.asp

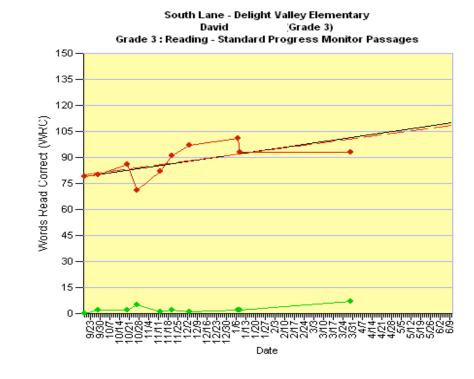
## Design Frequent Progress Monitoring By Priorities... Needs Differ by Grade by Skills Status

K-3	4-6	7-9	10-12	
ALL STUDENTS	ALL STUDENTS	ALL OR SOME STUDENTS	SOME STUDENT	
3-4 Times Per Year	3-4 Times Per Year	SCREEN	SCREEN	
AT RISK	AT RISK	AT RISK	AT RISK	
At Least 1x Per Month	At Least 1x Per Month	At Least 1x Per Month	At Least 1x Per Mont	
SEVERELY DISCREPANT	SEVERELY DISCREPANT	SEVERELY DISCREPANT	SEVERELY DISCREPAN	
At Least 1x Per Week	At Least 1x Per Week	At Least 1x Per Week	At Least 1x Per Weel	

### Students Who Are Significantly Discrepant

K-3	4-6	7-9	10-12	
SEVERELY DISCREPANT	SEVERELY DISCREPANT	SEVERELY DISCREPANT	SEVERELY DISCREPANT	
At Least 1x Per Week				

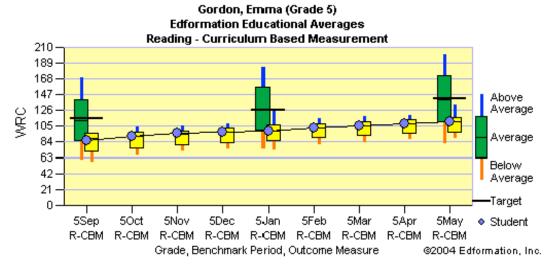
Weekly PM Allows
Interventions to Be
Modified, If
Necessary With 4-6
Weeks



# Students Who Are Moderately Discrepant (More At Risk)

K-3	4-6	7-9	10-12	
AT RISK	AT RISK	AT RISK	AT RISK	
At Least 1x Per Month				

Weekly to Monthly PM
Allows Interventions to
Be Modified, If Necessary
With 4-6 Weeks At Low
Cost in Terms of
Assessment Time

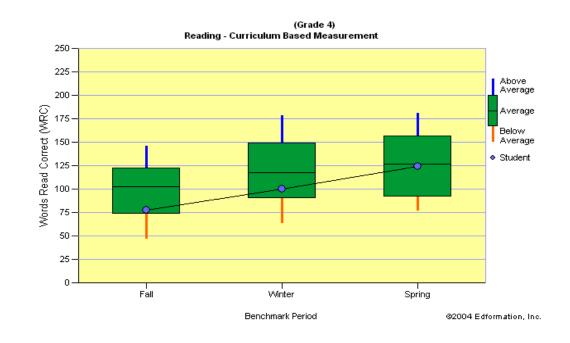


This chart shows that Emma Gordon improved from 85 Words Read Correct (WRC) from grade 5 Passages at the September Benchmark to 90 Words Read Correct (WRC) at the October Benchmark and to 94 Words Read Correct (WRC) at the December Benchmark and to 98 Words Read Correct (WRC) at the December Benchmark and to 98 Words Read Correct (WRC) at the January Benchmark and to 101 Words Read Correct (WRC) at the February Benchmark and to 104 Words Read Correct (WRC) at the April Benchmark and to 110 Words Read Correct (WRC) at the April Benchmark and to 110 Words Read Correct (WRC) at the May Benchmark. The rate of improvement (ROI) from the September Benchmark is 0.8 WRC per week. Currently, Emma Gordon's score is Average compared to Edformation Educational Averages.

#### Tier 1 General Education Students

K-3	3 4-6 7-9		10-12	
ALL STUDENTS	ALL STUDENTS	ALL OR SOME STUDENTS SCREEN + Better Grading System	Better Grading Systems Plus	
3-4 Times Per Year	3-4 Times Per Year		SCREEN SOME	

Benchmark Assessment
Allows for Interventions
to be Modified 2 Times
During the Year and
Adds Universal
Screening



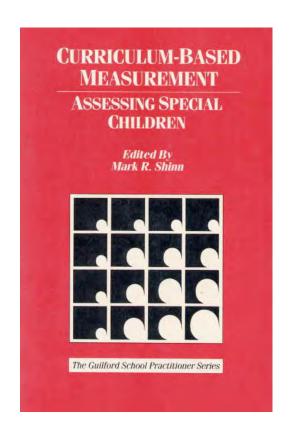
# Foundation for Proactive Planning

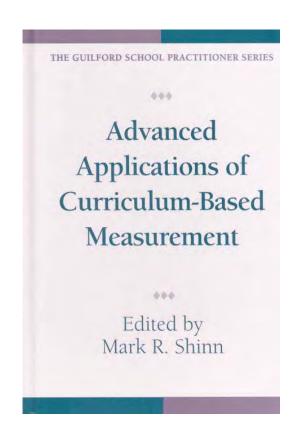
Let's Start With Reading Because It is So Important

Let's Prioritize Frequent Progress Monitoring for Students with Most Severe Educational Needs Where We Don't Have Time to Waste

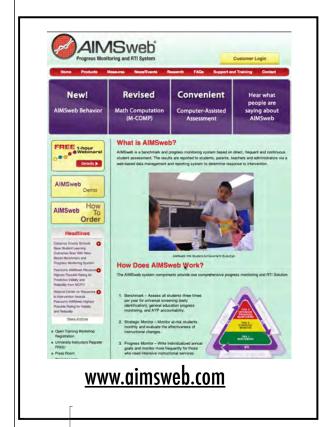
Let's Use Reading CBM to Do This

### My Bias Is to Use Curriculum-Based Measurement for Reading Frequent PM





## CBM is the GENERAL Label for a "Family" of Assessments





dibels.uoregon.edu



Easy CBM www.easycbm.com



http://www2.ctb.com/products\_services/ypp

## Why Does Mark Prefer CBM?

I Can "See"—and Hear—Progress

lt's Easy to Do

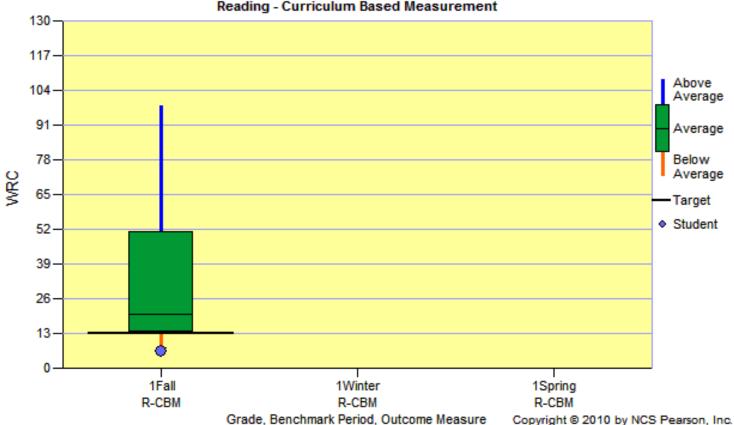
It Doesn't Take a Lot of Time

It Doesn't Cost a Lot of \$\$

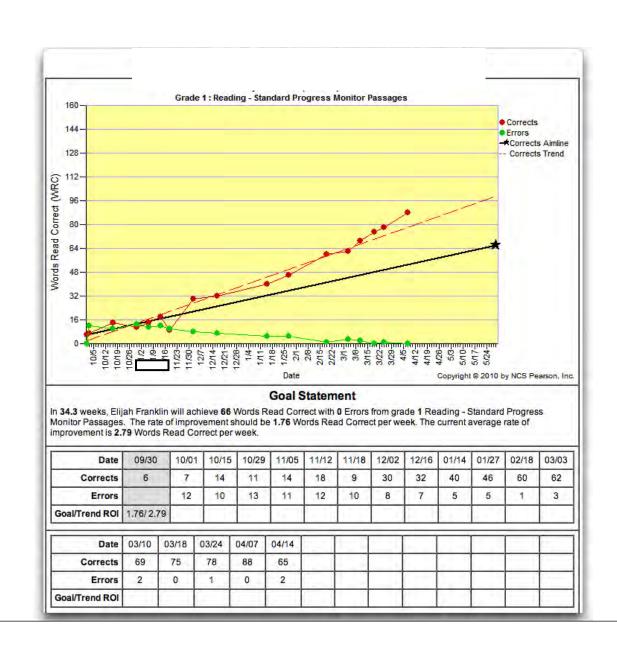
It's Scientifically Based

# Screening Suggested Need for Tier 3 Intervention

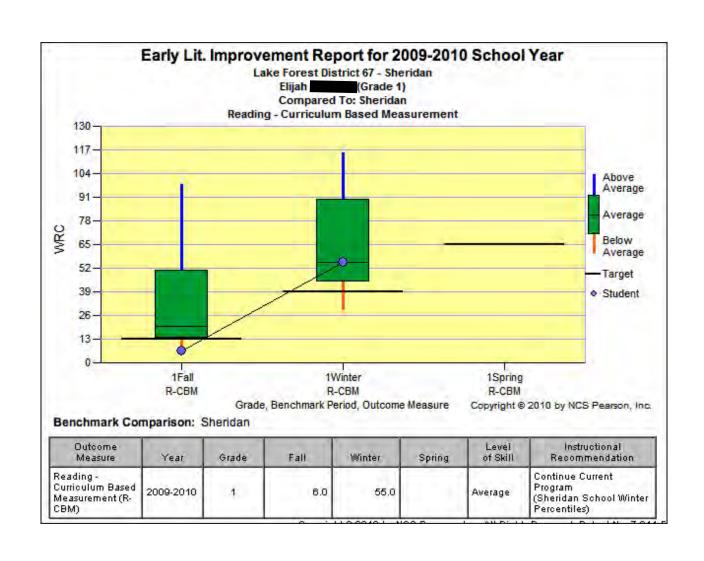
Lake Forest District 67 - Sheridan
Elijah Grade 1)
Compared To: Sheridan
Reading - Curriculum Based Measurement



### Progress Monitoring Results



### Gap Significantly Reduced

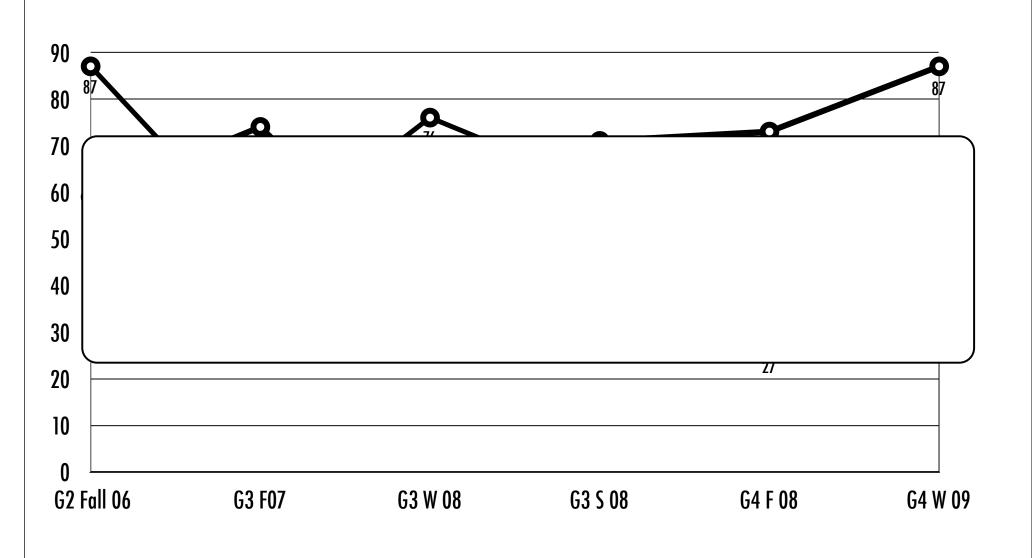


### It's Not Easy to SEE on Other Tests

Reading

Season/ Year	Grade	Student Score Range	Dist. Avg RIT	Norm Group Avg.	Student Growth	Typical Growth	Student %lle Range
W10	5	219- 222 -225	216	210			77- 84 -91
S09	4	206- 209 -212	212	206	17	8	45- 57 -67
W09 F08	4	201- <b>205</b> -209 189- <b>192</b> -195	209 203	204 200			39- 51 -61 21- 27 -33
S08		200- 203 -206	204	199	12	9	52- 61 -73
W08	3 3 3	202- 205 -209	200	196			65- 76 -84
F07		188- <b>191</b> -194	195	192			40- 48-56
F06	2	192- <b>195</b> -198	178	180			82- <b>87</b> -93

### I Made It Easier to See



### Use Important Indicators







FOUNDATIONAL CONCEPTS
Almost Anyone Can Do It
Scientific
Developmentally Identical
Culturally Independent

### So What Are the Barriers to CBM

Exercise 3: What Are Your Concerns About Using a Tool Like This for Frequent Progress Monitoring?

## Points of Confusion/Concern

Failure to Understand Progress Monitoring

Lack of Confidence in Short Tests

"Fluency"

## Oral Reading Synthesis....

...we believe that the flexibility and durability of CBM in reading across different measures, materials, settings, students, and situations is notable.

This flexibility and durability provide the basis for considering the development of a seamless and flexible system of progress monitoring that could be used across students of various ages and performance levels.

Such a system might allow one to follow the progress of a student from kindergarten to Grade 12, using the same measures and materials or linking measures and materials.

Miura Wayman, M., Wallace, T., Ives Wiley, H., Ticha, R., & Espin, C. (2007). Literature synthesis on curriculum-based measurement in reading. The Journal of Special Education, 41(2), 85-120.

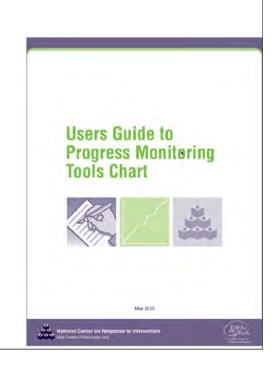
# Research Institute on Progress Monitoring (RIPM) Synthesis (2004)

The latest comprehensive CBM literature review, reported in Jenkins and Fuch presented the 2004 RIPM synthesis, tabulating 585 CBM research reports, 307 of which were published in journals...with 141 empirical studies addressing technical adequacy, instructional utility, and implementation logistics.

Jenkins, J. R., & Fuchs, L. S. (in press). Curriculum-Based Measurement: The Paradigm, History, and Legacy. In C. A. Espin, K. McMaster, S. Rose & M. Wayman (Eds.), A measure of success: How Curriculum-Based Measurement has influenced education and learning. Minneapolis, MN: University of Minnesota Press.

#### National RTI Center Progress Monitoring Minimum Criteria

- 1. Alternate forms are of equal and controlled difficulty or if IRT based, evidence of item or ability invariance.
- 2. Minimum acceptable growth (slope of improvement or average weekly increase in score
- 3. Benchmarks for minimum acceptable end-of-year performance specified in manual or published materials?
- 4. Monitoring system produces data that are sensitive to student improvement.
- 5. Reliability of the performance level score (e.g., internal consistency, stability, test-retest reliability).
- 6. Reliability for the slope by grade level.
- 7. Validity for the performance level score (e.g., content, concurrent, predictive, and/or construct)
- 8. Predictive validity information for the slope of improvement.



#### National RTI Center PM Results



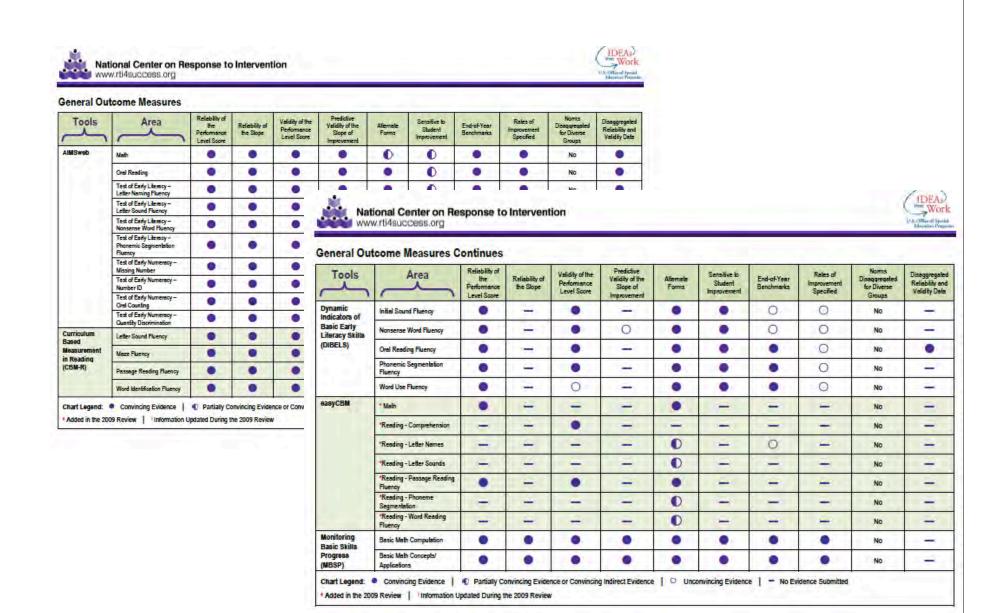


#### **General Outcome Measures**

Tools	Area	Reliability of the Performance Level Score	Reliability of the Slope	Validity of the Performance Level Score	Predictive Validity of the Slope of Improvement	Alternate Forms	Sensitive to Student Improvement	End-of-Year Benchmarks	Rates of Improvement Specified	Norms Disaggregated for Diverse Groups	Disaggregated Reliability and Validity Data
AIMSweb	Math	•				•	•		•	No	
	Orel Reading			•		•	0	•	•	No	
	Test of Early Literacy – Letter Naming Fluency				•		0			No	
	Test of Early Literacy – Letter Sound Fluency	•	•	•	•	•	0	•	•	No	•
	Test of Early Literacy – Nonsense Word Fluency						0			No	
	Test of Early Literacy – Phonemic Segmentation Fluency	•	•	•	•	•	0	•	•	No	
	Test of Early Numeracy – Missing Number		. •		•	•	-			No	
	Test of Early Numeracy — Number ID					•	-			No	•
	Test of Early Numeracy — Oral Counting			•			-			No	
	Test of Early Numeracy — Quantity Discrimination		•	•	•	•	-	•	•	No	
Curriculum Based Measurement in Reading	Letter Sound Fluency				•		•		•	No	_
	Maze Fluency				•	•			•	No	_
(CBM-R)	Passage Reading Fluency	•			•		•	•		No	-
	Word Identification Fluency					•				No	_

Chart Legend: Convincing Evidence | Departually Convincing Evidence or Convincing Indirect Evidence | Departually Convincing Evidence | Depart

#### National RTI Center PM Results



# BUT...The Problem of "Fluency" and Comprehension

None of the CBM/AIMSweb Measures Assess "Fluency!"

The are SHORT TESTS, to Allow Collecting SNAPSHOTS of General Skill Efficiently and Accurately

In Reading, General Reading Skill is NECESSARY, But Not Sufficient for Understanding

#### Consequences of (Mis) Interpretation as Fluency

If Interpreted As Fluency	If Interpreted (Correctly) As General Reading Ability
Goal is to Read Fast	Goal is to Read WELL
Interventions Emphasize Speed	Interventions Emphasize Quality
Interventions are "Slices" or Bandaids	Interventions are Integrated or Bandages

## The Intervention Effects of "Reading Faster"?

Implementing repeated reading and wide reading interventions without more formative intervention is not likely to be valuable (p. 9)

Wexler, J., Vaughn, S., Roberts, G., & Denton, C. A. (2010). The efficacy of repeated reading and wide reading practice for high school students with severe reading disabilities. Learning Disabilities Research & Practice, 25, 2-10.

Our results indicate that repeated reading does not qualify as an evidence-based or promising practice for students with or at risk for learning disabilities (p. 276)

Chard, D. J., Ketterlin-Geller, L. R., Baker, S. K., Doabler, C., & Apichatabutra, C. (2009). Repeated reading interventions for students with learning disabilities: Status of the evidence. *Exceptional Children*, 75, 263-281.

## Lack of Confidence in the Measures and "Fluency"-Is An IRI "Fluency?"

Problem	Solution			
Different Ways of Doing an IRI	Standardize the Directions			
100 Word Passages Were Challenging for	Fix the Length of the Test Time,			
Low Performers, Too Short for Good	Not the Length of the Test			
Readers	Materials			
Accuracy Scores Don't Correlate Nor Are	Find a Better Score That IS			
Sensitive to Meaningful Improvement	Correlated and Sensitive (WRC)			

### "Comprehension" is Oversimplified

A-Rod hit the cover off of the ball, but ended the game with a 6-4-3 double play.

Factual:

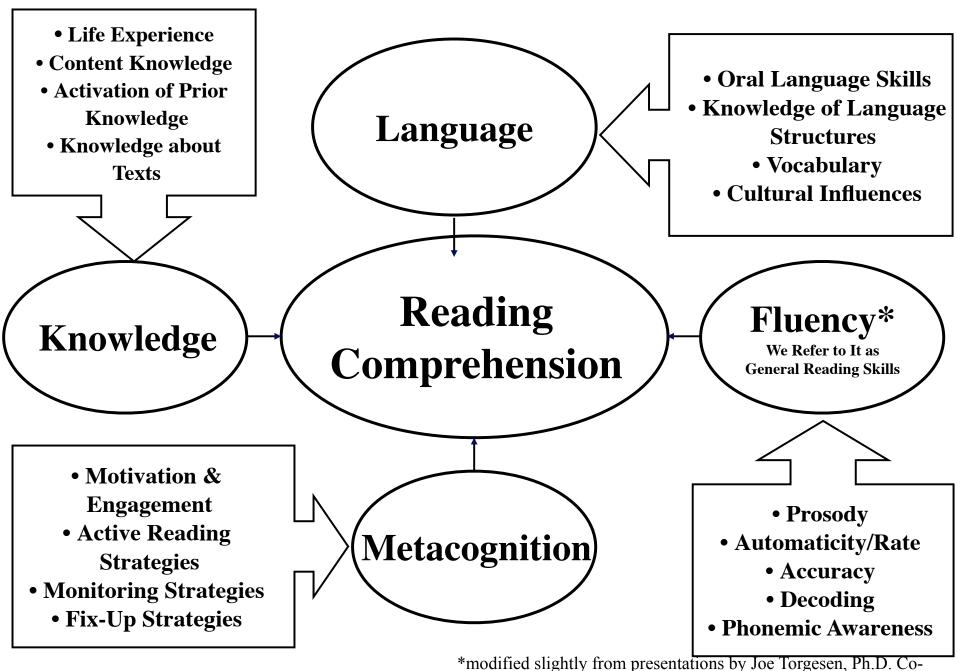
Who is A-Rod?

What does "6" mean?

Inferential:

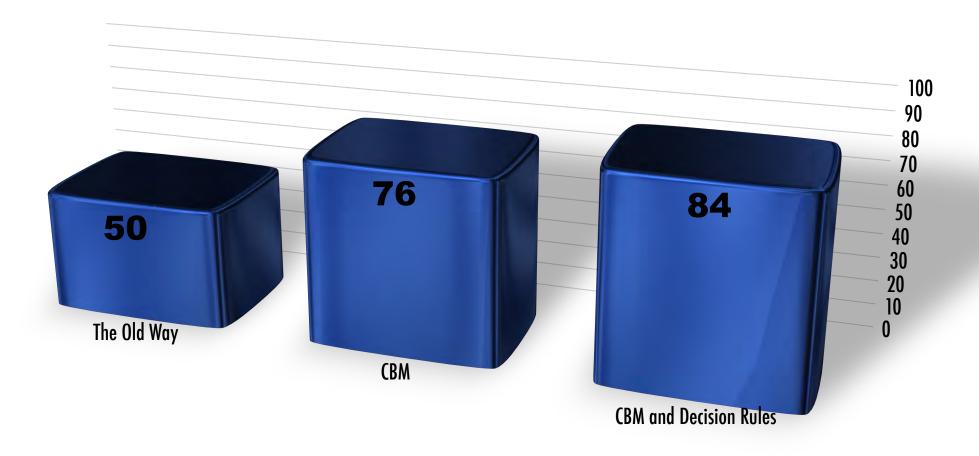
Why would people from Beantown celebrate this?

Why would this event mean different things in June than October?



\*modified slightly from presentations by Joe Torgesen, Ph.D. Co Director, Florida Center for Reading Research; www.fcrr.org

### But The Bottom Line is that It Powerfully Impacts Achievement, Especially for Kids At Risk or With Achievement Discrepancies



Fuchs, L. S., & Fuchs, D. (1986). Effects of systematic formative evaluation: A meta-analysis. *Exceptional Children*, *53*(3), 199-208.

# Expedite RTI Implementation By Changing Special Education IEP and PM Practices!

Special Education Leads!

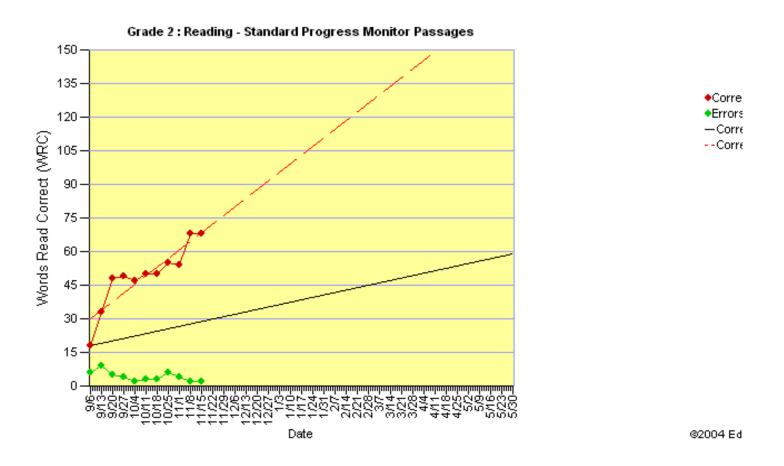
Legitimizes PM Data

Most People Don't Like the Current Process-and for Good Reasons!

It Represents "Best Practice" for Students Who Receive SE

Consistent with the Practices that Would Determine SE Eligibility Through RTI

### The Gold Standard for IEP Goals and Frequent Progress Monitoring



In 1 year, Johnny will read 60 WRC with less than 3 errors in Grade 2 Reading Passages.

### Resources

#### CHAPTER 10

Writing and Evaluating IEP Goals and Making Appropriate Revisions to Ensure Participation and Progress in the General Curriculum

> Mark R. Shinn Michelle M. Shinn University of Oregon

#### BACKGROUND/PURPOSE FOR CHANGES IN IEPS IN IDEA 97

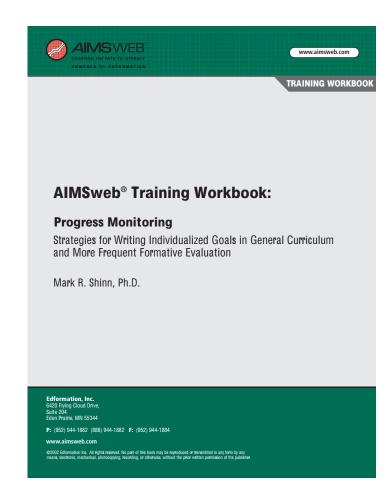
To many educators, the Individualized Education Programs (IEP) is a necessary "procedural evil" that must be completed so that a student with educational needs can receive service. As stated by Bateman and Linden (1998, p. 63) in their latest revision of their book on writing IEPs, "Sadly, most IEPs are horrendously burdensome to teachers and nearly useless to parents. Many if not most goals and objectives couldn't be measured if one tried and all too often no effort is made to actually assess the child's progress toward the goal."

Nearly every study of the limited body of knowledge on IEPs from the past 20 years has concluded likewise. For example, Smith in an extensive review concluded that after more than 10 years of implementation substantive IEP change has not ensued. To too many educators, the field has achieved the IEP nightmare predicted by Rinaldi (1976) in which schools would end up "with paper compliance rather than real or exemplary implementation" (p. 151).

For example, the authors recently noticed this anonymous poem posted prominently on the wall in a special education resource teacher's room. According to the

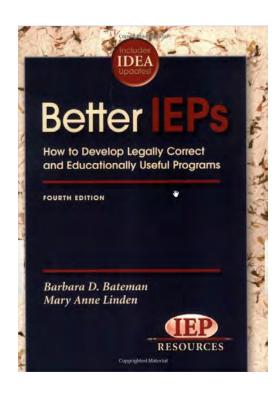
351

Shinn, M. R., & Shinn, M. M. (2000). Writing and evaluating IEP Goals and making appropriate revisions to ensure participation and progress in general curriculum. In C. F. Telzrow & M. Tankersley (Eds.), *IDEA Amendments of 1997: Practice guidelines for school-based teams.* (pp. 351-381). Bethesda, MD: National Association of School Psychologists.

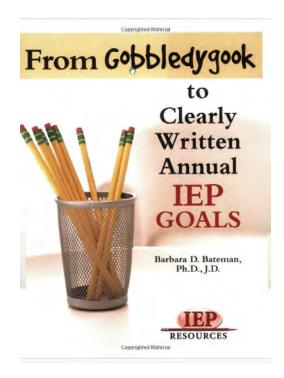


Shinn, M. R. (2003). AIMSweb™ Training Workbook
Progress Monitoring Strategies for Writing
Individualized Goals in General Curriculum and
More Frequent Formative Evaluation. Eden Prairie,
MN: Edformation, Inc.

### Resources



Bateman, B. D., & Linden, M. A. (2006). *Better IEPs: How to develop legally correct and educationally useful programs* (4th ed.). Verona, WI: Attainment Co.



Bateman, B. D., & Linden, M. A. (2007). From gobbledygook to clearly written annual IEP goals. Verona, WI: Attainment Co.

# Widespread Dissatisfaction with Current IEP and PM Practices

Unfortunately, the *IEP process operates poorly in many places* (e.g., McDonnell et al., 1997). For years, IEPs have been based on a *mastery measurement* framework, which creates

lengthy, unmanageable documents, and onerous paper work.

These mastery measurement IEPs, with their *long lists of short-term* objectives, also *fail to provide a basis for quantifying outcomes*.

For these reasons and more, IEPs promote, at best, *procedural compliance* without accounting for individual student learning or describing special education effectiveness.

Lynn S. Fuchs and Douglas Fuchs, Vanderbilt University
Testimony to the President's Commission on
Excellence in Special Education,
Progress Monitoring, Accountability, and LD Identification
April 18, 2002

# Legal Requirements for IEP Goal Progress Monitoring

Individualized Education Programs § 300.320 Definition of individualized education program.

- (1) A statement of the child's present levels of academic achievement and functional performance,
- (2)(i) A statement of **measurable annual goals**, including academic and functional goals designed to—
- A) Meet the child's needs that result from the child's disability to enable the child to be involved in and make progress in the general education curriculum;...
- (3) A description of-
- (i) **How the child's progress** toward meeting the annual goals described in paragraph (2) of this section will be measured; and
- (ii) When periodic reports on the progress the child is making toward meeting the annual goals (such as through the use of quarterly or other periodic reports, concurrent with the issuance of report cards) will be provided;

# It's Not "Anything Goes" Special Education Has Legal and Regulatory Requirements

- (3) Use technically sound instruments that may assess the relative contribution of cognitive and behavioral factors, in addition to physical or developmental factors.
- (c) Other evaluation procedures. Each public agency must ensure that-
  - (1) Assessments and other evaluation materials used to assess a child under this part—...
    - (iii) Are used for the purposes for which the assessments or measures are valid and reliable;

This Applies to ALL Special Education Assessment Activities

### Nearly All Current IEP Goals Fail The "Measurable Criterion"

#### Goal Smorgasbord! Pseudo-Measurable Goals...

- Student will perform spelling skills at a high 3rd grade level.
- Student will alphabetize words by the second letter with 80% accuracy.
- Student will read words from the Dolch Word List with 80% accuracy.
- Student will master basic multiplication facts with 80% accuracy.
- Student will increase **reading skills by progressing through Reading Street** with **90% accuracy** as determined by teacher-made fluency and comprehension probes by October 2011.
- To increase reading ability by 6 months to 1 year as measured by the Woodcock Johnson.
- Student will make 1 **year's growth in reading** by October 2011as measured by the **Brigance**.
- Student will be a better reader.

### Sample Observable and Measurable CBM IEP Goals

#### In 1 Year (Expiration of the IEP), John will

Read 115 Words Correctly (WRC) with 3 or fewer errors from a randomly selected Grade 4 Standard Reading Passage

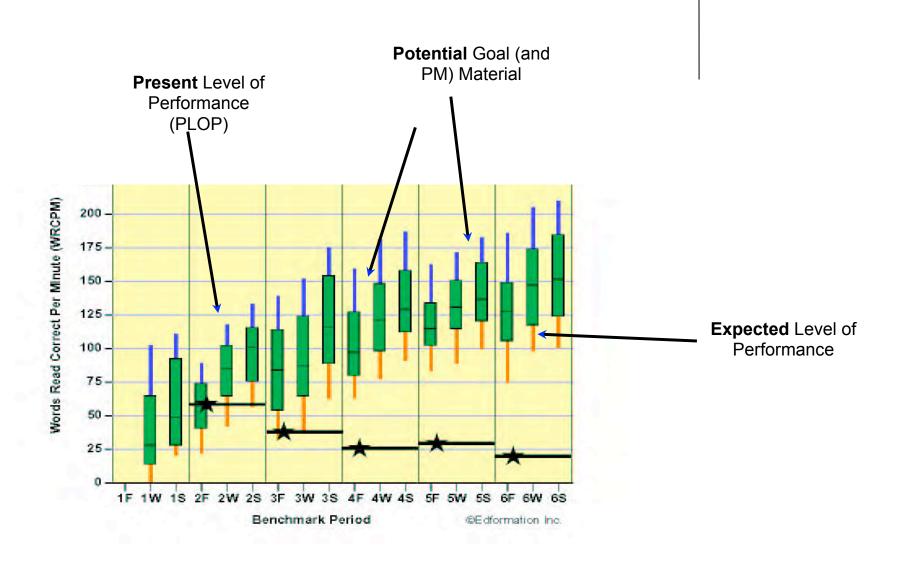
Earn a score of greater than 35 points on a randomly selected Grade 5 Mathematics Applications Probe

Write 45 Total Words (TWW) with 40 Correct Writing Sequences (CWS)given a randomly selected story starter.

### Goal Setting Strategies

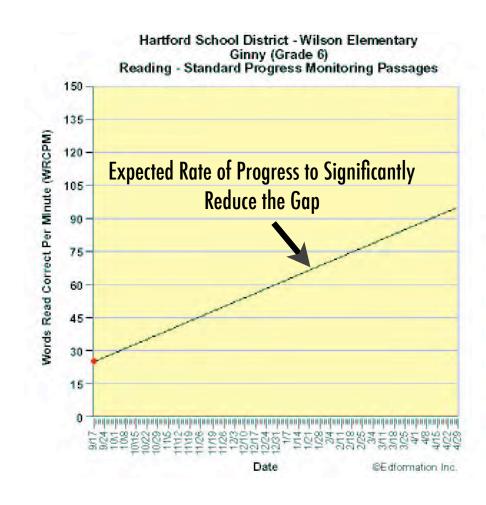
- 1. Determine the Present Level of Performance (PLOP) or Current Performance Information based on Survey-Level Assessment (SLA)
- 2. Know the Time Frame for the Goal
- 3. Determine the Level of Curriculum That Defines Success and Reduces the Gap
- 4. Define the Criterion for Success

### How to Do a Survey Level Assessment to Write Individualized Goals



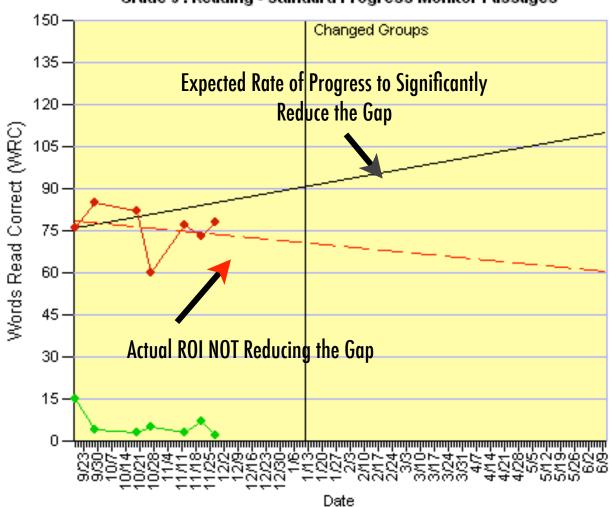
### IEP Goal is Turned Into an Expected Rate of Progress on a Graph

In 34 weeks (1 year), Ginny will read 95 words read correctly with less than 3 errors from Grade 4 Reading Assessment Passages.



### What Are We to Do With This?

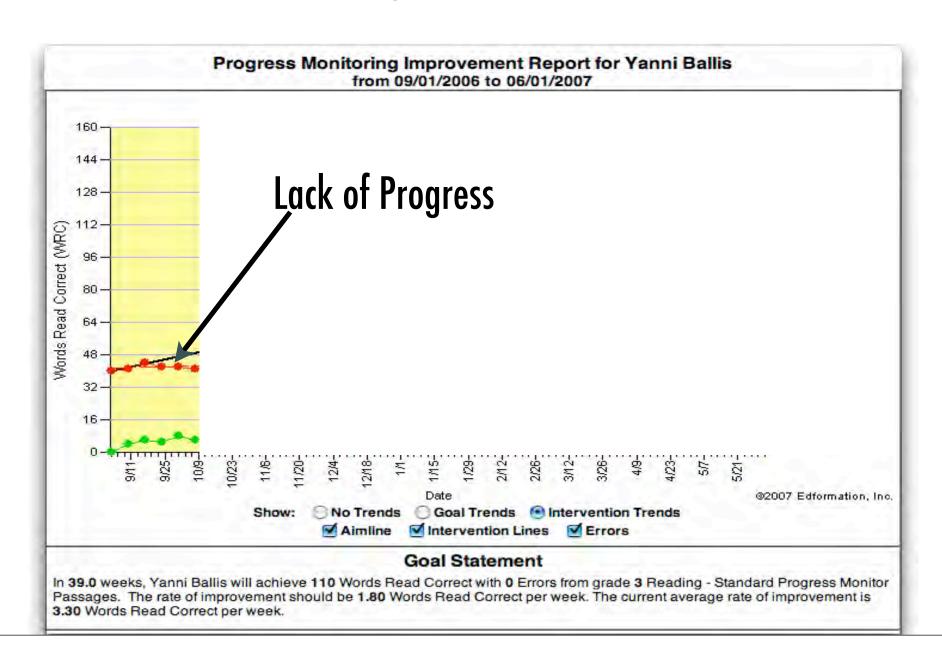
South Lane - Delight Valley Elementary
Jalese' (Grade 3)
Grade 3 : Reading - Standard Progress Monitor Passages



### Catch Up to IDEA-97!

- (b) Review and revision of IEPs—(1) General. Each public agency must ensure that, subject to paragraphs (b)(2)and (b)(3) of this section, the IEP Team—
- (i) Reviews the child's IEP periodically, but not less than annually, to determine whether the annual goals for the child are being achieved; and
- (ii) Revises the IEP, as appropriate, to address—
- (A) Any lack of expected progress toward the annual goals described in
- § 300.320(a)(2), and in the general education curriculum, if appropriate;

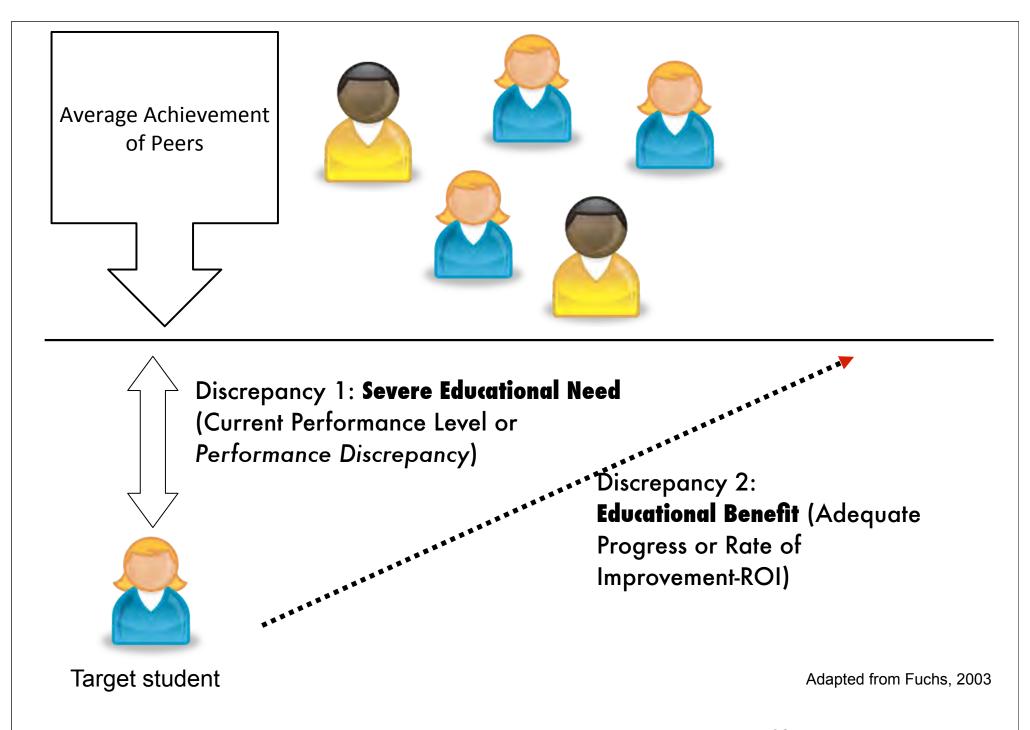
### Revising the IEP



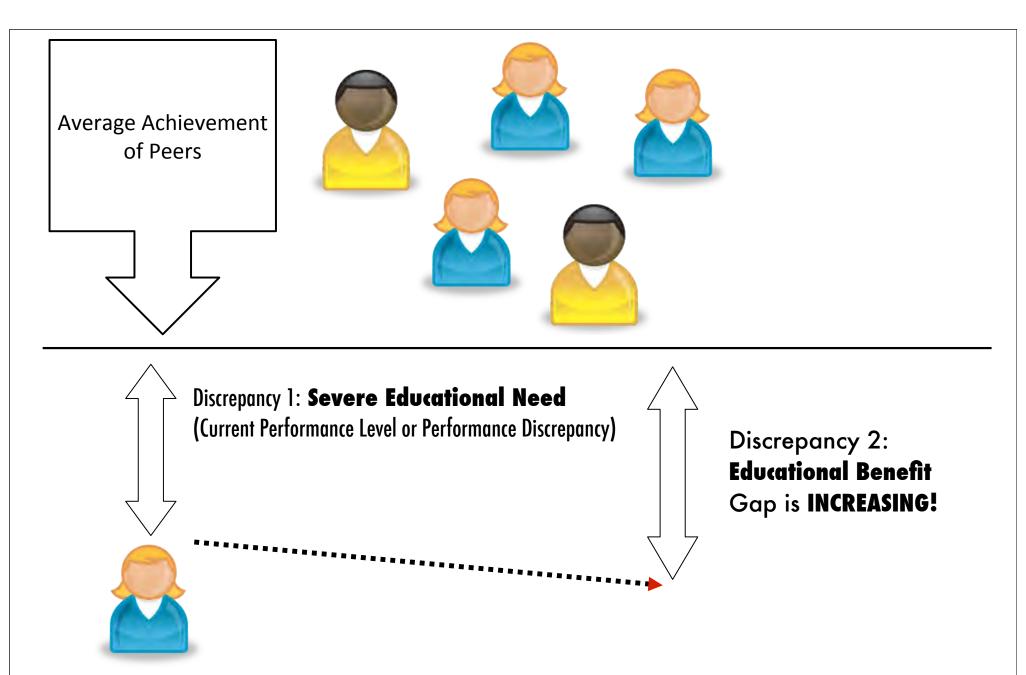
Ensuring Quality PM is Part of the

RTI Dual Discrepancy

When Special Education is Considered

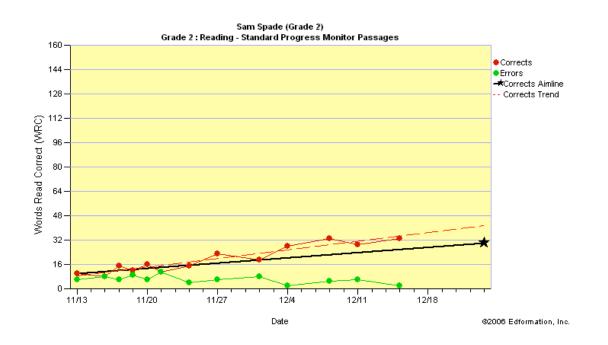


The Discrepancy is Necessary, But USUALLY Not Sufficient



Target student Adapted from Fuchs, 2003

#### The SAME Progress Monitoring Practices Can Be Used to Assess Student's RTI as Part of SLD Entitlement

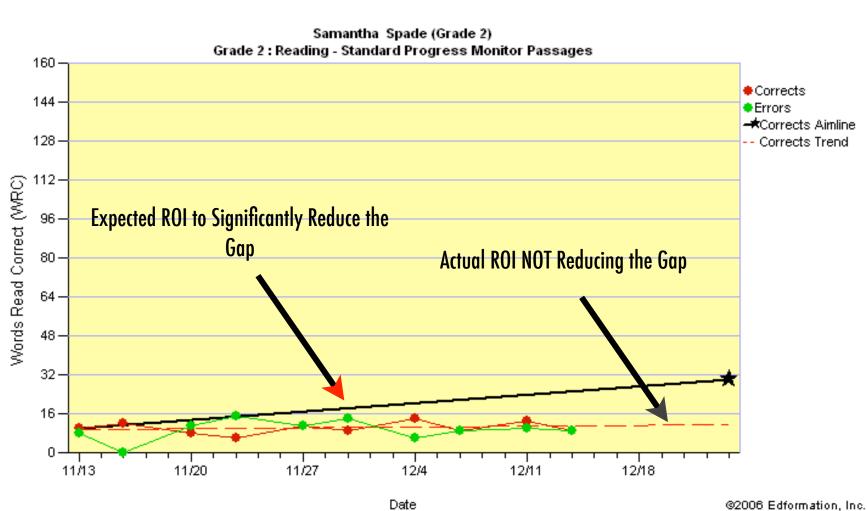


The **SAME** Progress Monitoring Practices Used **AFTER** Entitlement are Used, in part, to **DETERMINE** Entitlement

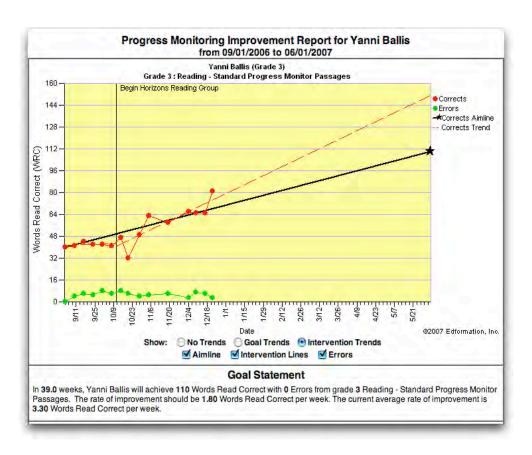
# Again, It's Not "Anything Goes" Special Education Has Legal and Regulatory Requirements

- (3) Use technically sound instruments that may assess the relative contribution of cognitive and behavioral factors, in addition to physical or developmental factors.
- (c) Other evaluation procedures. Each public agency must ensure that-
  - (1) Assessments and other evaluation materials used to assess a child under this part—...
    - (iii) Are used for the purposes for which the assessments or measures are valid and reliable;

## Monitoring A Specific Student's RTI



# Goal Setting for Special Education Entitlement



Fall Entry into Tier 3
PLOP of 40 WRC = 3<sup>rd</sup> Percentile

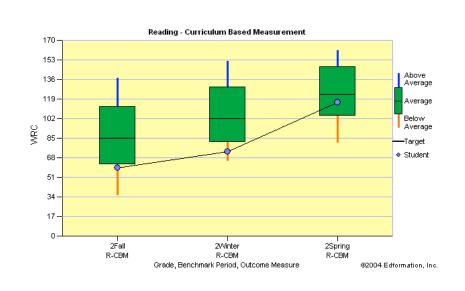
End-of-Year Goal of 110 WRC = 15<sup>th</sup> Percentile Significant Reduction of Gap and Potential Tier 2 Services

**RTI** for Eligibility

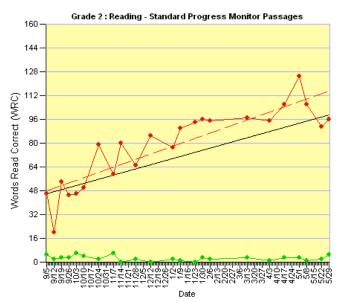
Grade-Level Materials After Sufficient Number of Weeks Showing Lack of Response to Appropriate Instruction

Significantly Reduce the Gap

### Special Education Has Other Decisions Like Annual and 3 Year Evaluations



Reducing Educational Need (Gap)



Meeting or Exceeding IEP Goal

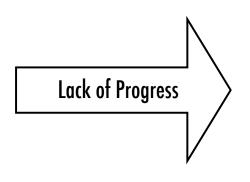
◆Corrects ◆Errors —Corrects Aimlin --Corrects Trend

@2004 Edformation,

# Model of Special Education Entitlement

Significant Performance Discrepancy

**Program Need** 





Current Intervention
Plan

Special
Education Program
That May Reduce the
Gap

#### All Start with Analyzing Extent Data

As part of an initial evaluation (if appropriate) and as part of any reevaluation under Part 300, the IEP Team and other qualified professionals, as appropriate, must:

Review existing evaluation data on the child, including:

Evaluations and information provided by the parents of the child;

Current classroom based, local, or State assessments, and classroom-based observations; and

Observations by teachers and related services providers; and

#### **IDEA 2004**

On the basis of that **review**, and input from the child's parents, **identify what** additional data, if any, are needed to determine:

Whether the child is a child with a disability, as defined in 34 CFR 300.8, and the educational needs of the child; or, in case of a reevaluation of a child, whether the child continues to have such a disability, and the educational needs of the child;

The present **levels of academic achievement** and related developmental needs of the child;

Whether the child needs special education and related services; or, in the case of a reevaluation of a child, whether the child continues to need special education and related services;

### Annual and 3 Year Evaluation

Performance Discrepancy

Is the Student Still Significantly Discrepant?

Goals That Reduces the Gap

Is the Student Meeting or Exceeding the Expected Rate of Progress

If Not, Revise IEP

Special Education Plan

Is the Plan Actually
Delivered
(Fidelity of Implementation)

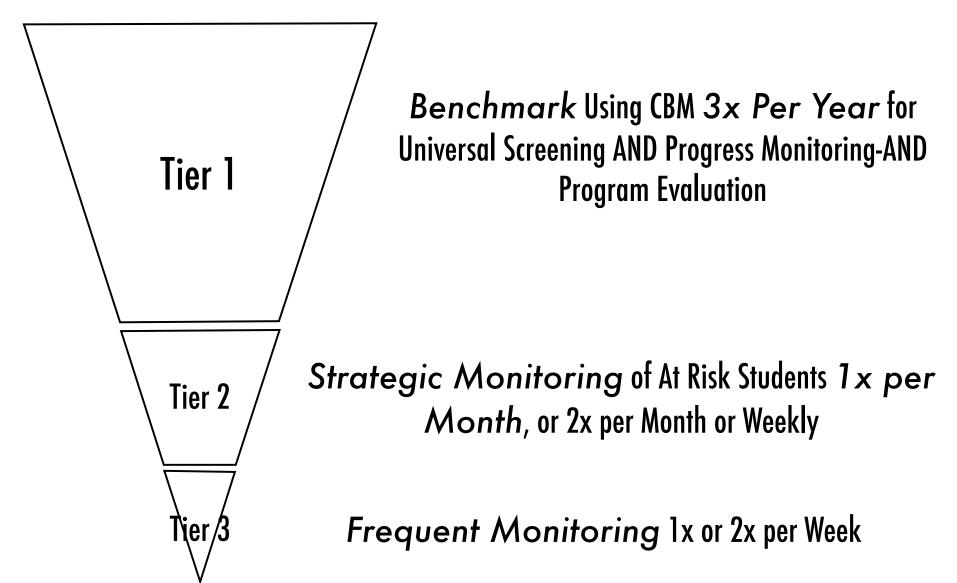
If Not, Ensure IEP is Implemented

If Yes, Consider Need

### Now We're Ready for Other Tiers

Work Your Way Down...Remember,
Students with Achievement Discrepancies
Need PM More Than Typically Developing
Students

# Build a Common and Coordinated Data System with CBM Across 3 Tiers



### 5 "Families" of Progress Monitoring and Goal Setting

Tier	Goal Material	Time Frame and Frequency	Criterion for Success
Special Education IEPs	Individualized Based on Severity	IEP Annual Goal "Anniversary Data" Weekly	Significantly Reduce the Gap
RTI for Eligibility	Grade-Level Materials	After Sufficient Number of Weeks Showing Lack of Response to Appropriate Instruction	Significantly Reduce the Gap
Tier 3: Frequent PM	<u>Usually</u> Grade Level	End of Year Weekly	Significanlty Reduce the Gap
Tier 2: Strategic	Grade-Level Materials	End of Year Month to Month	Adequate Progress and "Over the Bar"
Tier 1: Benchmark	Grade-Level Materials	End of Year Benchmark to Benchmark	Adequate Progress and "Over the Bar"

### **Goal Material**

#### The Assessment Materials in Which We Expect to the Student to Show Progress

#### **Grade-Level Material**

- The material from the General Education Grade placement
- e.g., Grade 3 Student = Grade 3 Reading Passages
- e.g., Grade 7 Student = Grade 7 Reading Passages

#### **Goal Material**

- The material where we expect the student to be performing in successfully at the end of the time frame that reduces the gap
- e.g., Grade 4 Student with a Severe Discrepancy May = Grade 3
- e.g., Grade 6 Student with a Severe Discrepancy May = Grade 3

### Time Frame

When We Expect the Student to Reach Their Goal

**End-of-the-School Year** 

— When the School Year Ends

IEP "Anniversary Date"

— Around 1 Year from the Date the IEP is Written

### Frequency

#### **How Often to Monitor**

#### Aligned with the Tier

- Tier 1 @ Benchmark (usually 3-4 times per year)
- Tier 2 tied to Resources (ranging from repeating the Benchmark in Off Months, to 2 times per month, to weekly)
- Tier 3 weekly

#### Aligned with the Decision

- RTI as part of SE Eligibility (1-2 times per week to generate a reliable rate of progress and judge response to appropriate instruction)
- IEP Progress monitoring toward Annual Goals (1-2 times per week to generate a reliable rate of progress and judge appropriate instruction)

### Criterion for Judging Success (Criterion for Acceptable Performance; CAP)

#### Two Approaches:

1. Norm-Based

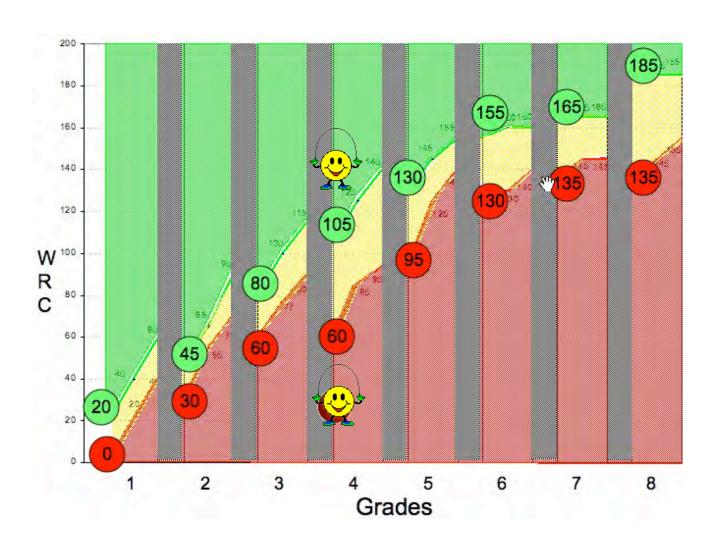
Reading as Well as Other Specified Students

- e.g., reading as well as students @ 25th percentile in School District A
- e.g., reading reading as well as students @ 10th percentile nationally
- 2. Standards-Based ("over the bar")

Reading as Well to Increase Likelihood of Meeting Standards on a High Stakes Test

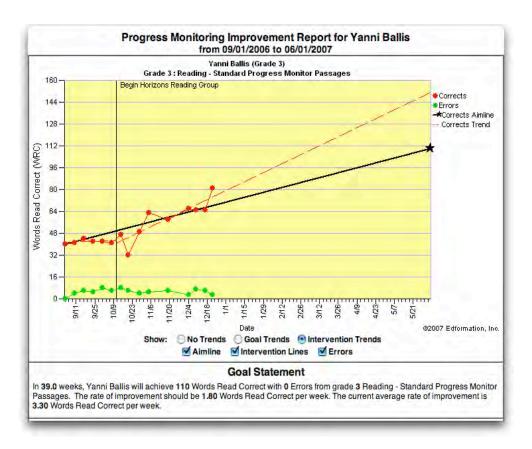
- e.g., reading 80 WRC on Grade 3 probes because students with this score are highly likely to pass the Grade 3 SOL
- e.g., reading 150 WRC on Grade 7 probes because students with this score are highly likely to pass the Grade 7 SOL

### "Over the Bar" In Illinois



Images and Analyses Courtesy of Ben Ditkowsky, Ph.D. ben@measuredeffects.com

## Goal Setting for Tier 3 the Same As SE RTI



Fall Entry into Tier 3
PLOP of 40 WRC = 3<sup>rd</sup> Percentile

End-of-Year Goal of 110 WRC = 15<sup>th</sup> Percentile Significant Reduction of Gap and Potential Tier 2 Services

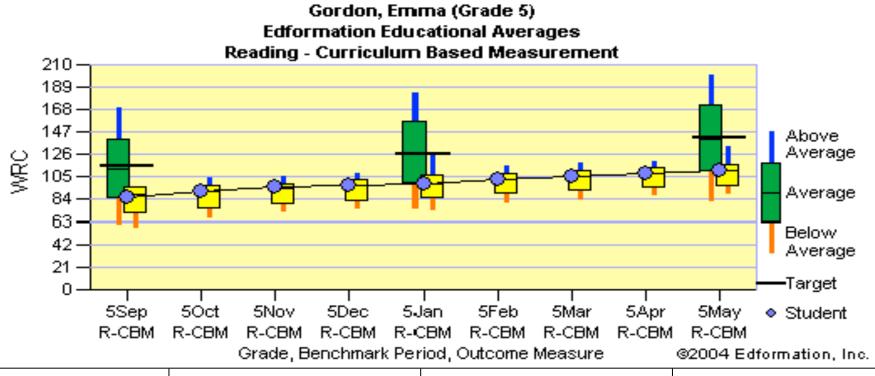
Tier 3: Frequent PM

**Usually** Grade Level

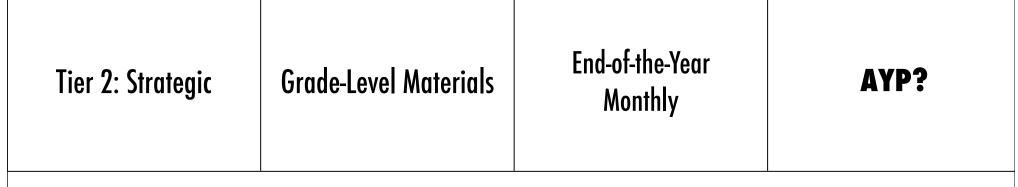
Weekly Monitoring Toward End of Year Goal

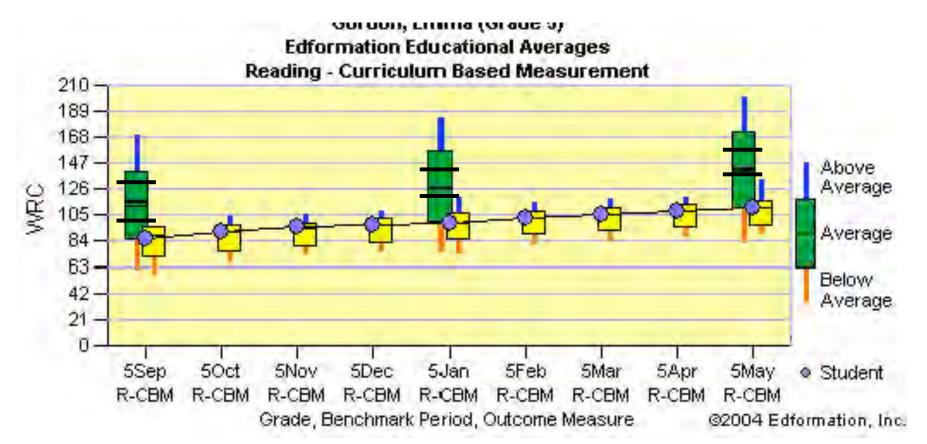
Significantly Reduce the Gap

#### Tier 2: Strategic Monitoring of At Risk



This chart shows that Emma Gordon improved from 85 Words Read Correct (WRC) from grade 5 Passages at the September Benchmark to 90 Words Read Correct (WRC) at the Words Read Correct (WRC) at the November Benchmark and to 96 Words Read Correct (WRC) at the Penchmark and to 98 Words Read Correct (WRC) at the January Benchmark and to 101 Words Read Correct (WRC) at the February Benchmark and to 104 Words Read Correct (WRC) at the March Benchmark and to 107 Monitoring Depends on RC) at the UCC UNIC UNIC CORRECT (WRC) at the Wards Read Correct (WRC) at the WRC) at the WRC UNIC CORRECT (WRC) at the WRC UN

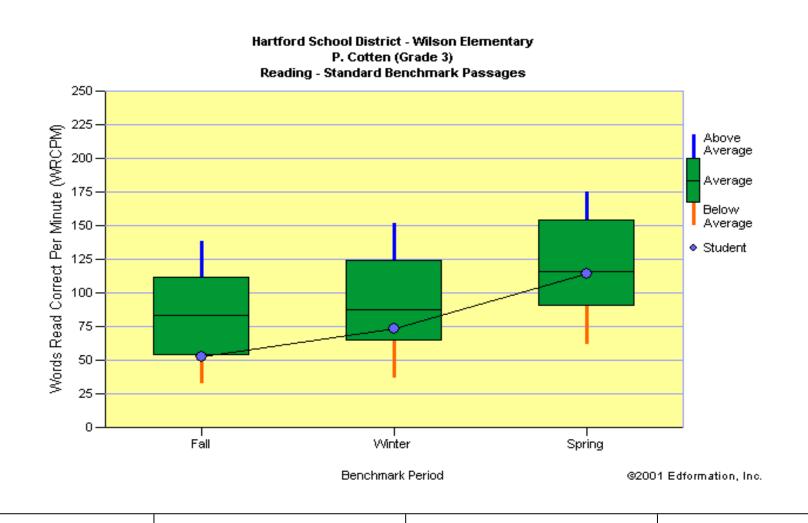




Emma, Grade 5, is NOT Making AYP

#### Tier 1 Progress Monitoring

#### Combining Progress Monitoring with Screening in Benchmark



Tier 1: Benchmark

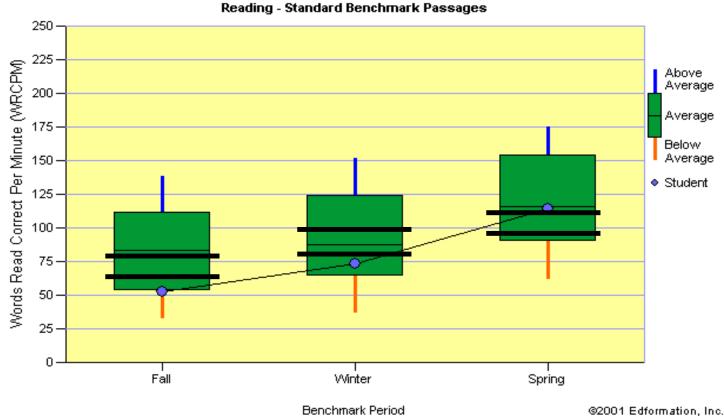
**Grade-Level Materials** 

End of Year Benchmark to Benchmark

Adequate Progress and "Over the Bar"

## Reduced the Gap and Making AYP "Over the Bar"

Hartford School District - Wilson Elementary
P. Cotten (Grade 3)
Reading - Standard Benchmark Passages



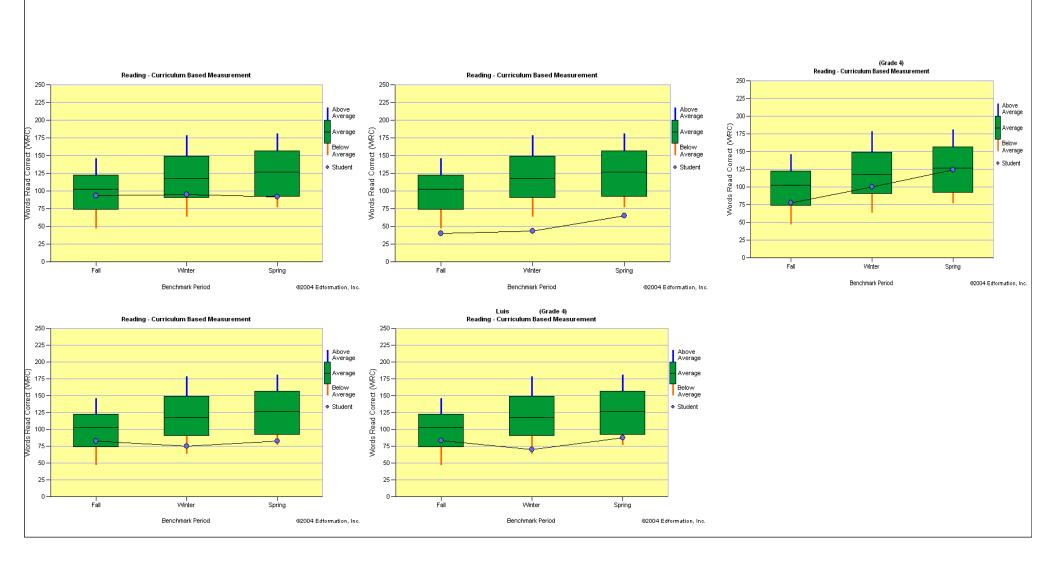
### PM Can Be "Disconnected" From Screening

Any Variety of Screeners May Work to Identify Students for Tiers 2 or 3, But Are They

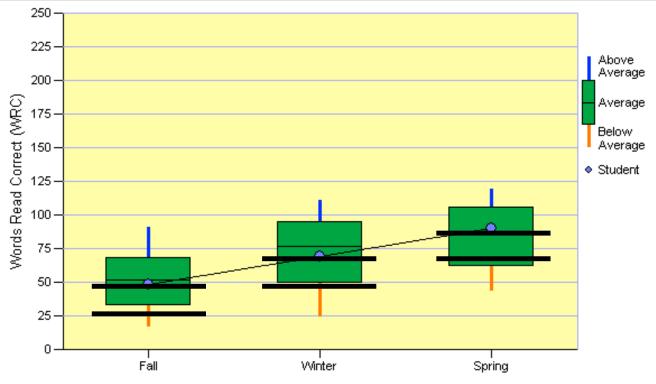
- COMPLETE?
- COORDINATED AND CONSISTENT?
- COMPLICATED?
- CONFIDENCE?
- FEASIBLE?

And When You Begin Good Frequent Progress Monitoring (and Use Rtl) You'll Need to Transition to a Different Assessment Process...Oh Well.

#### Why Do I Prefer CBM at Tier 1?



Goal Material	Time Frame and Frequency	Criterion for Success
Grade-Level Materials	End-of-Year Benchmark to Benchmark, 3 Times per Year	Making AYP "Over the Bar"
250		



Carlos, a Second Grader, Rate of Progress Also is Exceeding "Targets" That are Linked to His State Test. By the End of Grade 2, He has a 90% Chance of Passing The ISAT

### Why is This a Good Thing?

All Teachers (and Families) Need Simple to Understand Information About Educational Need and Progress

These Data May Become the Basis for Part of the "Determinant Factors" for Special Education Eligibility

34 CFR 300.309 require the following:

- (b) To ensure that underachievement in a child suspected of having a specific learning disability is not due to lack of appropriate instruction in reading or math, the group must consider—
- (2) Data-based documentation of repeated assessments of achievement at reasonable intervals, reflecting formal assessment of student progress during instruction, which was provided to the child's parents.

## Consider Expanding in Other Content Areas

Again, Begin with IEP Goals and PM

# CBM Provides Multiple Forms of Graded Basic Skills Assessment Materials

Reading Curriculum-Based Measurement (R-CBM) Reading-Maze Spelling Written Expression Math Computation (M-COMP) Math Concepts and Application (M-CAP)

**Early Literacy** 

**Letter Names** 

**Letter Sounds** 

Phonemic Segmentation

Nonsense Words

**Early Numeracy** 

**Oral Counting** 

Number Identification

Missing Number

**Quantity Discrimination**